

MODEL 810

POWER AMPLIFIER

FEATURES

- All solid state design.
- Conservatively rated at 100 watt rms power output.
- Massive heat sinks to prevent overheating.
- Recessed level control to discourage tampering.
- Printed circuit boards formed of epoxy glass to provide greater strength and dependability.
- Plug-in facility for bridging or matching input transformer.
- Provides +24 and -24 volt power for Electro Sound preamplifiers (-02 version).

DESCRIPTION

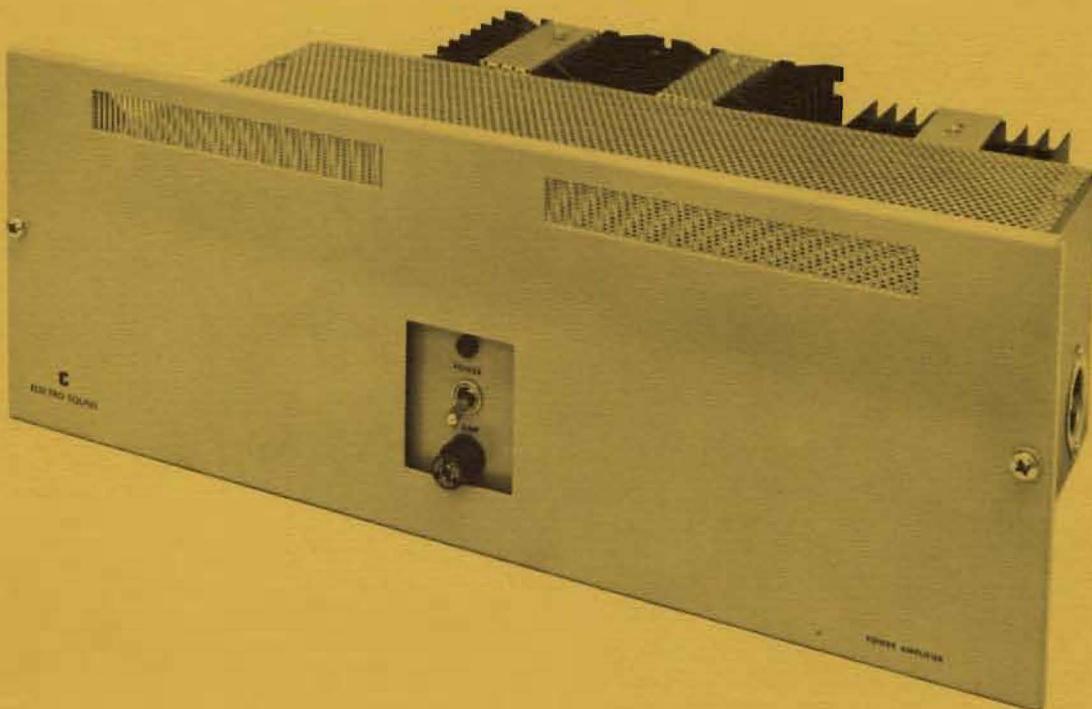
Model 810 power amplifiers are manufactured by Electro Sound to the rigid specifications required for professional quality equipment. Inflexible standards are maintained in selecting components, in assembly, and in final

testing, to ensure an end product that meets and surpasses all measures of professional excellence.

Flat response over a wide range of frequencies, minimum distortion, and low noise are inherent in the engineering design of the Model 810. The power output is conservatively rated at 100 watts rms, into load impedances of 4, 8, 16, or 40 ohms (the 40 ohm output tap coincides with a 70 volt line output).

Emphasis has been placed on providing a continuous duty amplifier, which will operate over long periods of time with no need for maintenance or re-adjustment. A current sensing circuit protects the output transistors against accidental overload. This circuit holds the output within safe operating range even if the output is inadvertently shorted.

The Model 810 power amplifiers are available in two versions. The Catalog No. 0110020-01 equipment contains only the power amplifier circuit and the integral power supply. On the Catalog No. 0110020-02 amplifier, a +24 and -24 volt d-c power supply is also included; this supply can be used to provide power to preamplifiers, switching circuits, etc.



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SOUND SYSTEM COMPONENTS

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SPECIFICATIONS

| | |
|------------------------|--|
| Input Sensitivity | 0.8 volt rms for rated output |
| Power Output | 100 watt rms. |
| Distortion | Less than 0.5% total harmonic distortion from 30 to 15,000 Hz at rated output. |
| Frequency Response: | ±1 dB, 40 to 20,000 Hz, at rated output. ±0.5 dB, 20 to 20,000 Hz at 1 watt output. |
| Input Impedance | 1,200 ohms with dummy plug. 600 ohms with plug-in matching transformer. 15,000 ohms with plug-in bridging transformer. |
| Load Impedance | 4, 8, 16, or 40 ohms, tapped from output transformer (40 ohm output is for 70v line). |
| Output Impedance | Less than 8% of nominal load impedance. |
| Noise Level | 95 dB below rated output. |
| Controls | Level potentiometer, linear taper. |
| Power Requirement | 105 to 125 volts, 50 or 60 Hz. |
| Preamp Power Supply | Supplies -24 and +24 volts dc, ±5% at up to 200 ma continuous duty for preamplifiers (-02 version only). |
| Operating Temperature | Up to 55° C, ambient. |
| Mounting | Occupies 7 inches of vertical space in a standard 19 inch rack. |
| Weight | 44 pounds |
| Dimensions (in inches) | 19(W) x 7(H) x 12 3/4 (D) |